

GGCCTGACTACCAGAAAC	ATG	GCG	ACC	AGC	GCT	GTT	CCA	AGT	GAA	AAC	CTT	CCC	ACA	TAT	60
	M	A	T	S	A	V	P	S	E	N	L	P	T	Y	14
AAA CTA GTA GTG GTG GGA GAT GGT GGT GTG GGC AAG AGT GCG CTC ACT ATT CAG TTT TTC	120														
K L V V V G D G G V G K S A L T I Q F F	34														
CAG AAG ATC TTT GTG CCT GAC TAC GAC CCC ACC ATT GAA GAC TCC TAC CTG AAG CAT ACA	180														
Q K I F V P D Y D P T I E D S Y L K H T	54														
GAG ATT GAC AAT CAG TGG GCC ATC TTG GAT GTT CTG GAC ACA GCC GGG CAG GAG GAG TTC	240														
E I D N Q W A I L D V L D T A G Q E E F	74														
AGT GCC ATG CGG GAA CAA TAC ATG CGC ACA GGG GAT GGC TTC CTC ATT GTC TAC TCC GTC	300														
S A M R E Q Y M R T G D G F L I V Y S V	94														
ACC GAC AAG GCC AGC TTC GAG CAC GTG GAC CGC TTC CAC CAG CTC ATT CTG CGT GTC AAG	360														
T D K A S F E H V D R F H Q L I L R V K	114														
GAC AGG GAG TCA TTC CCA ATG ATC CTC GTG GCC AAC AAG GTG GAT CTG ATG CAC CTA AGG	420														
D R E S F P M I L V A N K V D L M H L R	134														
AAA GTC ACC AGG GAC CAA GGA AAA GAA ATG GCA ACC AAA TAC AAT ATC CCA TAT ATA GAG	480														
K V T R D Q G K E M A T K Y N I P Y I E	154														
ACC AGT GCC AAG GAC CCG CCT CTC AAC GTG GAT AAA ACC TTC CAT GAC CTA GTT AGA GTA	540														
T S A K D P P L N V D K T F H D L V R V	174														
ATT AGG CAA CAG GTT CCA GAG AAA AAC CAG AAG AAG AAA AAG AAG ACA AAA TGG CGA GGA	600														
I R Q Q V P E K N Q K K K K K T K W R G	194														
GAC AGG GCC ACC GGC ACT CAC AAA CTG CAG TGT GTC ATC TTG TGA CAG CCT GAA GCC CTG	660														
D R A T G T H K L Q C V I L *	208														
GGCATAGCAACCGTGAAGTGGCAGCCCTGGGACCAGCCCACTGCCTAACTGCACTGAGAACCACCTTCTAACTACAGCC	739														
CTTGGCTCTTGGACTGGGCATTGGAAGGGAATGAGGGAGGAGGGGGCAGAAGCAGGCCGGGGCTGGCTTTGCTGCCTGT	818														
CCCAGGAGACAGGGCTACAGCTTCCAAACCTTTTGTGTGTTGACTGAGCCCACTTCCAGTCTCTTGGTGGGCTTGT	897														
CTTTTAACTCATAGCTGGTTTGTATGGAAGTGCTTACCCACATACAACGCACCAGACAAGCCATGAGCAAGCTTCCT	976														
CCCTGTCCCATCCCCAGTGTCTGAGCTCTTGTGTCTTTGTAGATTTTAAATTATTGAGTAATGATTATTTTATTAA	1055														
AGAGGTCTGTGCCCATTGCTGCGAAGCCCCAAGTCTTTGGCAGACCTCTGATAAATGTCTGCA	1119														

Figure 1

p21 Ras	MT-----EYKLVVVGAGGVGKSALTIQLI	24
M-Ras	MATSAV-----PSENLP--TYKLVVVGDDGGVGKSALTIOFF	34
R-Ras	MSSGAASGTGRGRPRGGGPGPRDPPPGETHKLVVVGDDGGVGKSALTIQFI	50
p21 Ras	QNHFVDEYDPTIEDSYRKQVVIDGETCLLDYLDTAGQEYSAMRDQYMRT	74
M-Ras	QKIFVPDYDPTIEDSYLKHTIDNQWAILDVLDTAGQEFSAMREQYMRT	84
R-Ras	QSYFVSDYDPTIEDSYTKICTVDGIPARLDILDTAGQEEFGAMREQYMRA	150
p21 Ras	GEGFLCVFAINNTKSFEDIHQYREQIKRVKSDDDVPMVLVGNKCDLAA-R	123
M-Ras	GDGFLIVYSVTDKASFEHVDRFHQLILRVKDRESFPMILVANKVDLMHLR	134
R-Ras	GNGFLLVFAINDRQSFNEVGKLFQTILRVKDRDDFPIVLVGNKADLENQR	150
p21 Ras	TVESRQAQDLARSYGIPYIETSAK-TRQGVEDAFYTLVREIRQHKLRLKN	172
M-Ras	KVTRDQGKEMATKYNIPYIETSAKDPPLNVDKTFHDLVRVIRQQVPEKNQ	184
R-Ras	QVLRSEASSFSASHHMTYFEASAK-LRLNVDEAFEQLVRAVRKYQEQLP	199
p21 Ras	PPDESGP----GCMSC---KCVLS	189
M-Ras	KKKKKTKWRGDRATGTHKLQCVIL	208
R-Ras	PSPPSAPRK--KDGGC---PCVLL	218

Figure 2

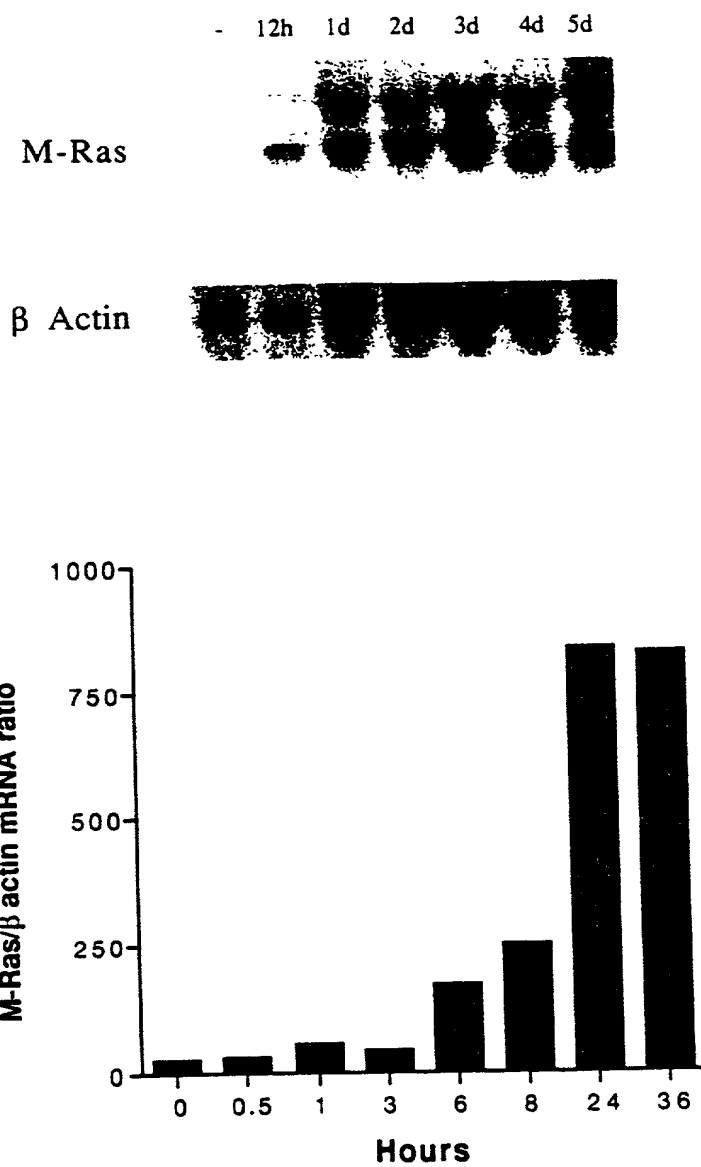


Figure 3

FVB

Liver
Kidney
Heart
Brain
Intestine
Spleen
Thymus
Lung
Bone Marrow

Tg5

Liver
Kidney
Heart
Brain
Intestine
Spleen
Thymus
Lung
Bone Marrow

Figure 4

CGGGGGCGACGCTGCCTCCTCACCGGCGCAGGCTAGGAGGGGGCGG 46

CCTGAGTGCCGTAGCCGAGCCGGGGCTGGAGCGCGGGTCTGACCTACGAGAAAC ATG GCA ACC AGC GCC GTC 120
M A T S A V 6

CCC AGT GAC AAC CTC CCC ACA TAC AAG CTG GTG GTG GTG GGG GAT GGG GGT GTG GGC AAA 180
P S D N L P T Y K L V V V G D G G V G K 26

AGT GCC CTC ACC ATC CAG TTT TTC CAG AAG ATC TTT GTG CCT GAC TAT GAC CCC ACC ATT 240
S A L T I Q F F Q K I F V P D Y D P T I 46

GAA GAC TCC TAC CTG AAA CAT ACG GAG ATT GAC AAT CAA TGG GCC ATC TTG GAC GTT CTG 300
E D S Y L K H T E I D N Q W A I L D V L 66

GAC ACA GCT GGG CAG GAG GAA TTC AGC GCC ATG CGG GAG CAA TAC ATG CGC ACG GGG GAT 360
D T A G Q E E F S A M R E Q Y M R T G D 86

GGC TTC CTC ATC GTC TAC TCC GTC ACT GAC AAG GCC AGC TTT GAG CAC GTG GAC CGC TTC 420
G F L I V Y S V T D K A S F E H V D R F 106

CAC CAG CTT ATC CTG CGC GTC AAA GAC AGG GAG TCA TTC CCG atG atC CTC GTG GCC AAC 480
H Q L I L R V K D R E S F P M I L V A N 126

AAG GTC GAT TTG ATG CAC TTG AGG AAG ATC ACC AGG GAG CAA GGA AAA GAA ATG GCG ACC 540
K V D L M H L R K I T R E Q G K E M A T 146

AAA CAC AAT ATT CCG TAC ATA GAA ACC AGT GCC AAG GAC CCA CCT CTC AAT GTC GAC AAA 600
K H N I P Y I E T S A K D P P L N V D K 166

GCC TTC CAT GAC CTC GTT AGA GTA ATT AGG CAA CAG ATT CCG GAA AAA AGC CAG AAG AAG 660
A F H D L V R V I R Q Q I P E K S Q K K 186

AAG AAG AAA ACC AAA TGG CGG GGA GAC CGG GCC ACA GGC ACC CAC AAA CTG CAA TGT GTG 720
K K K T K W R G D R A T G T H K L Q C V 206

ATC TTG TGA GGCCTGCAGGCCTGAAGGCCTCGGGCACAGTGACGGTGGCTGGCCAGCCCTCGGGACCCCTCCCCA 791
I L * 208

CCTAACTGCACTGAAACCATTTCTAACCACAAACCTTGGCCCAAGGACTTGGTACAGGAAGGGAGAAGGGCAGGTGGGC 870
AGGGAGCAAGACAGGGTCTGGCTTTTGCCAAGAGGAACGGGGCTTTTCCACCTTCTTCAAAAGAGACAAGGGAAGGCC 949
ACCTGTAAAGCAGGAAGCAGCATCAAGTTGCCCTTGGGCCCCCATGTTGTTTGGATTTCAAACGGGGTTTCCTTC 1028
CCCTTCCTTTTCGGGTGGGTGTTGTTGGTTATTGGTTAACTACATATGGTT 1081

Figure 5

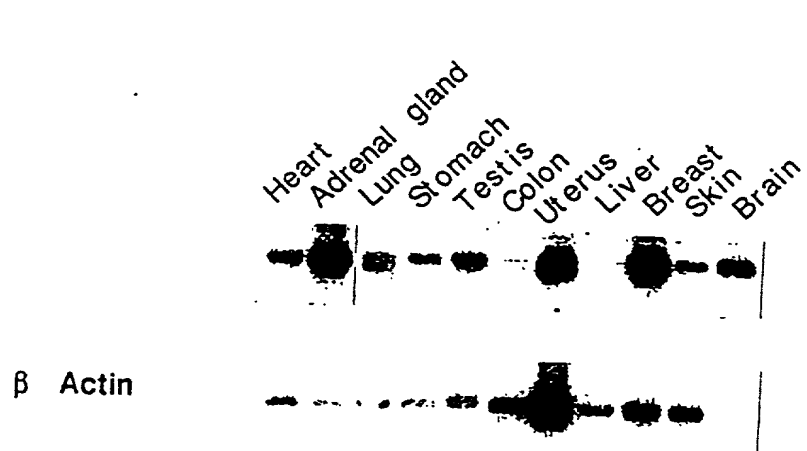


Figure 6

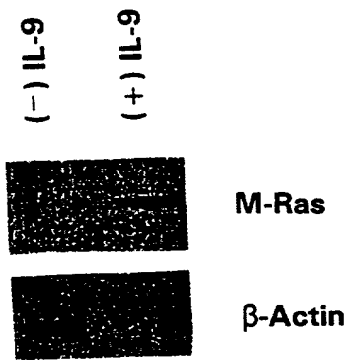


Figure 7

	Constitutively Activated			Dominant Negative	
M-Ras	M-Ras-1	M-Ras-2	M-Ras-3	M-Ras-4	M-Ras-5
	G22-V22	Q71-K71	G22-K22	S27-N27	C205-S205
	GGT-GTT	CAG-AAA	GGT-AAG	AGT-AAT	TGT-TCT

Figure 8

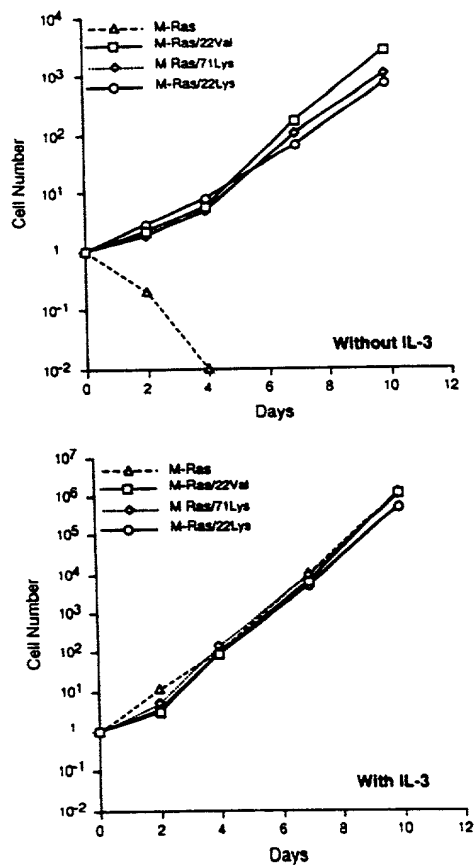


Figure 9

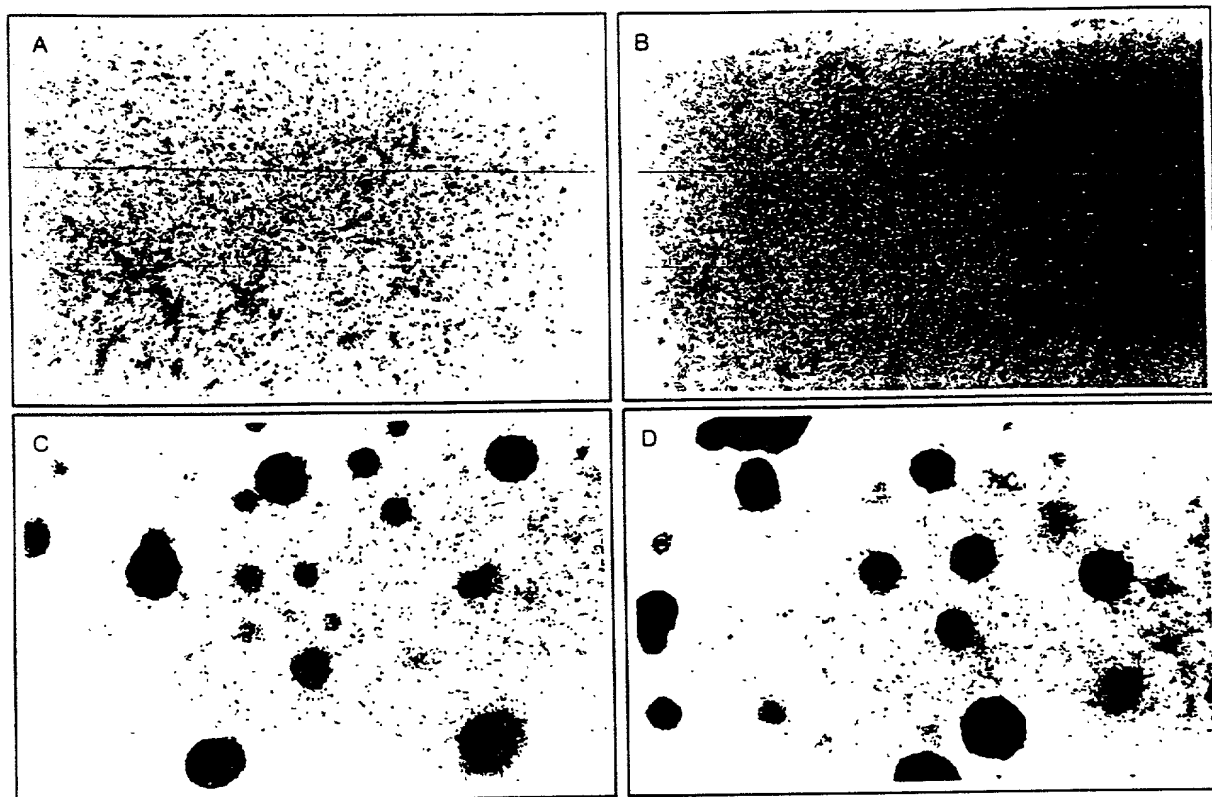


Figure 10

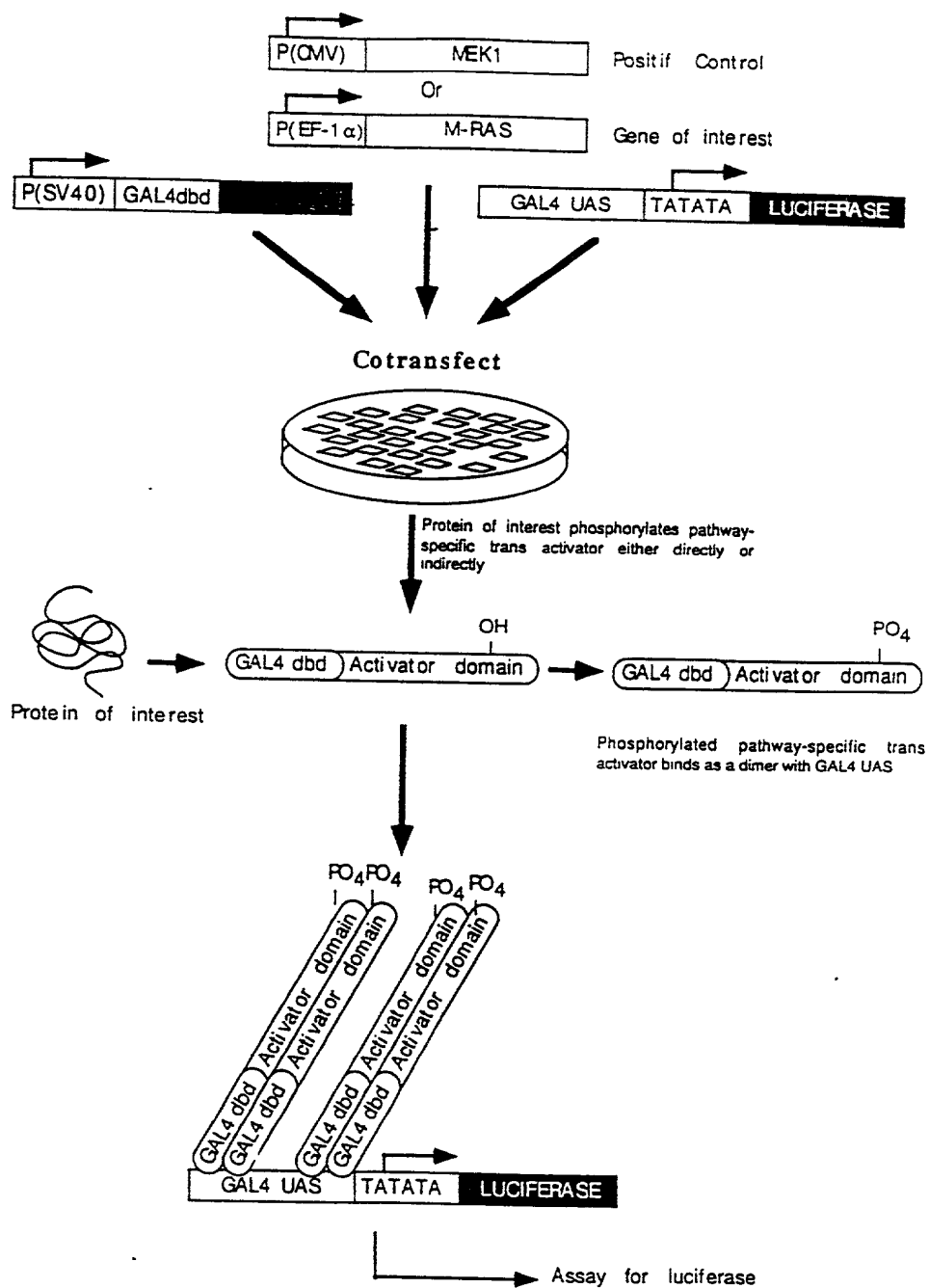


Figure 11

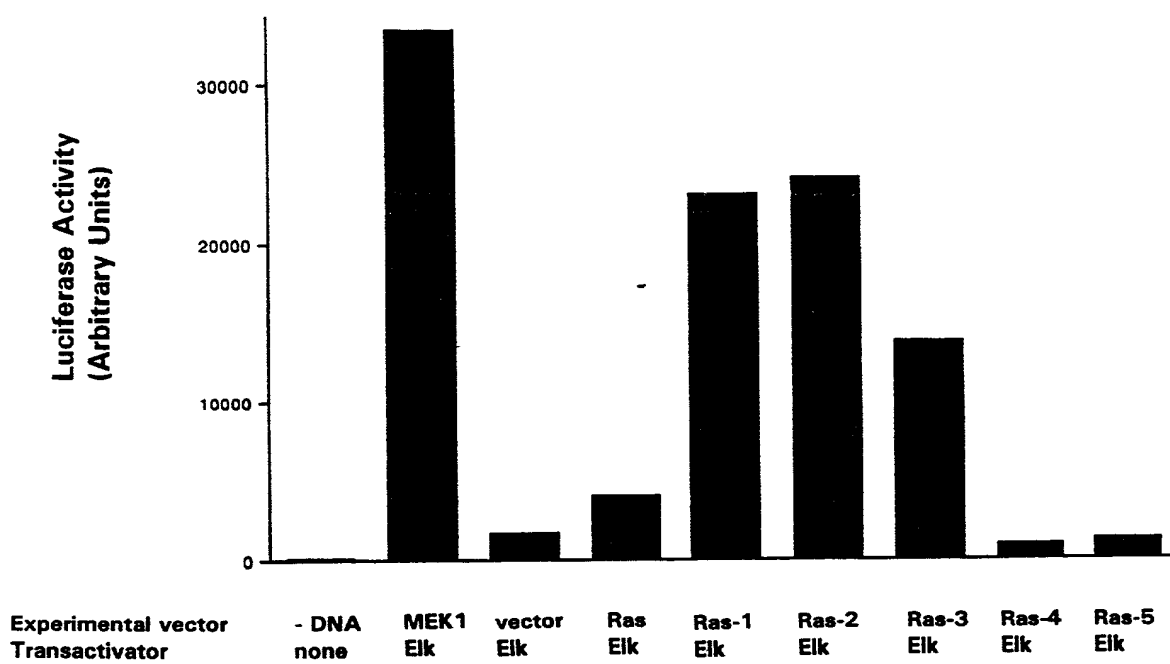


Figure 12

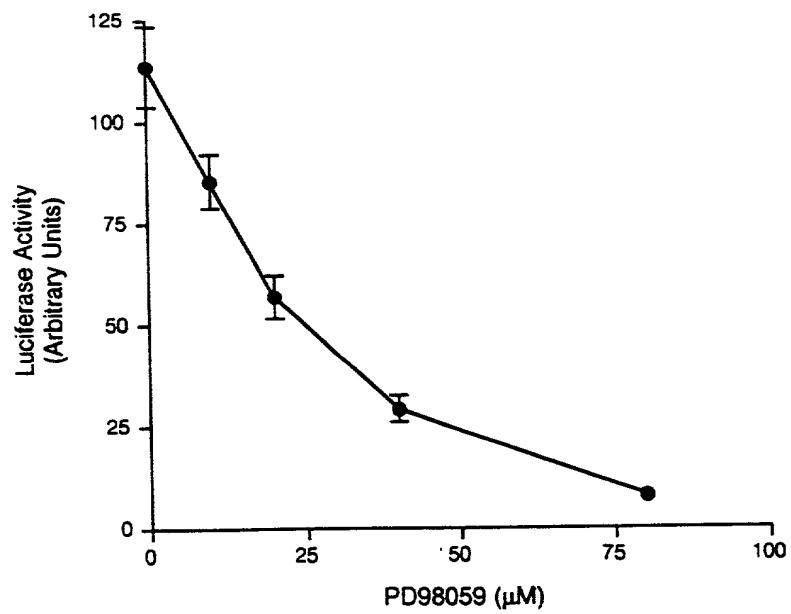


Figure 13

Thymidine Incorporation

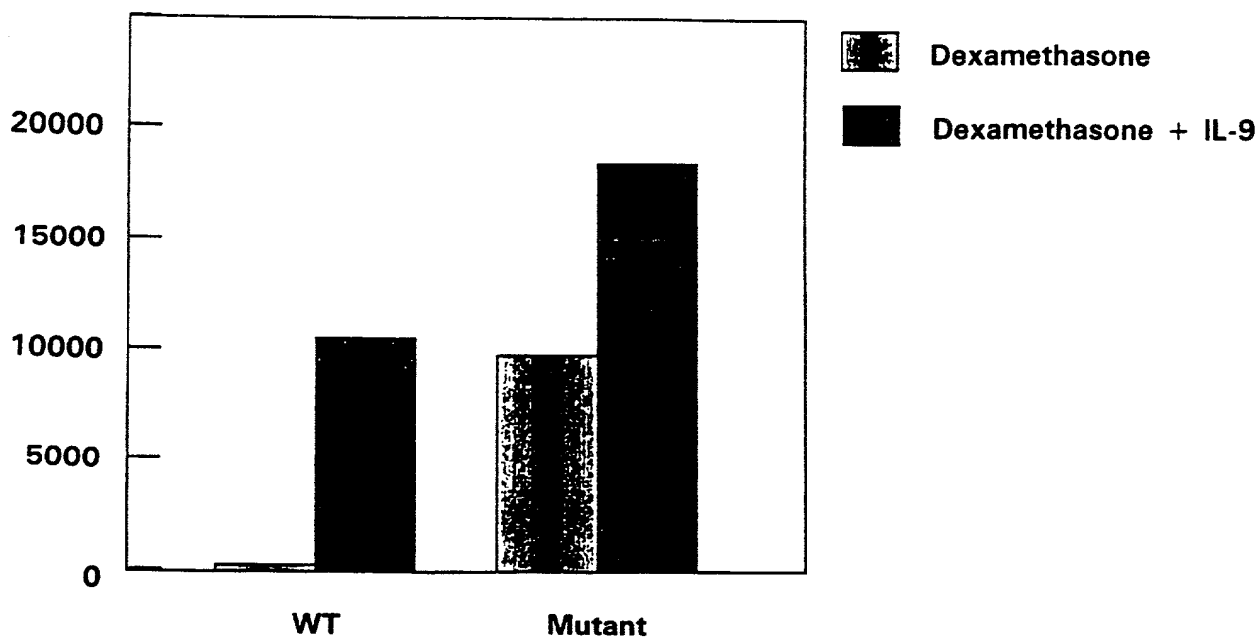


Figure 14

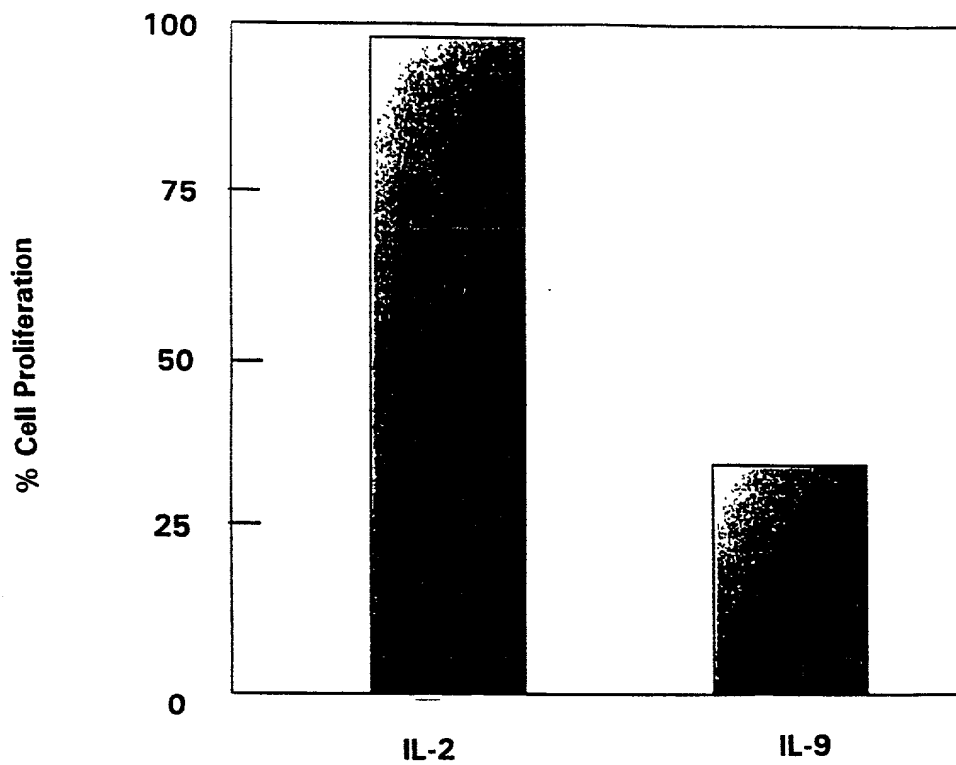


Figure 15

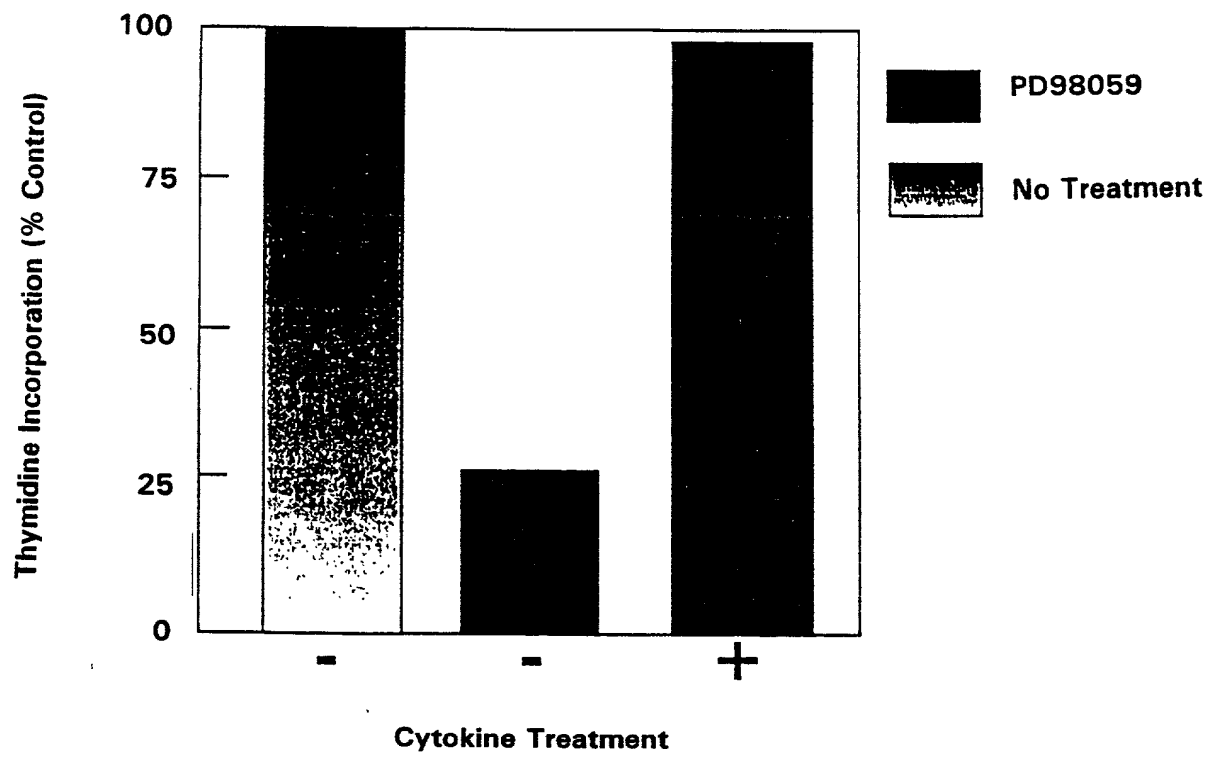


Figure 16

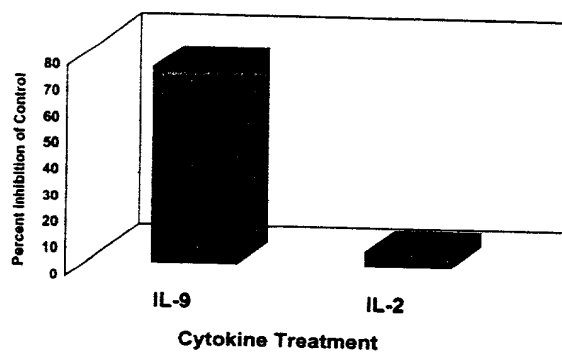


Figure 17

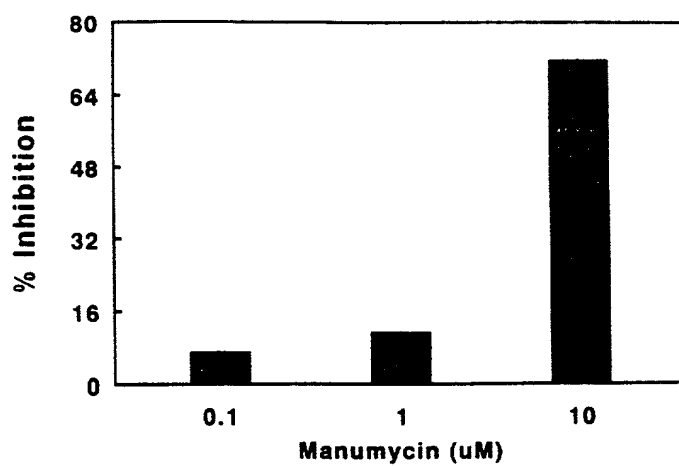


Figure 18

Effect of Lovastatin on the Proliferation of TS2 Cells

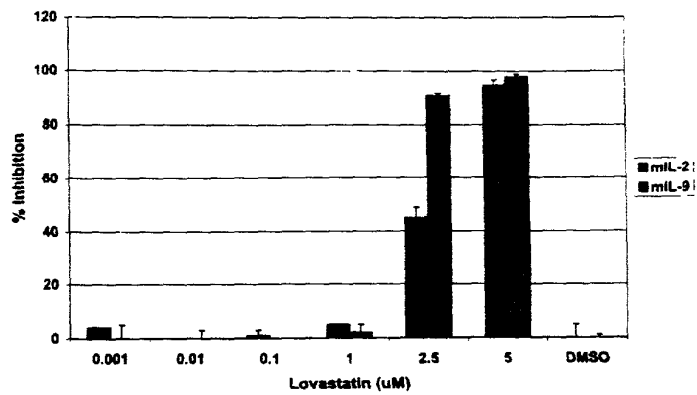
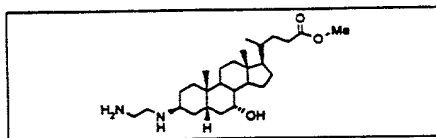
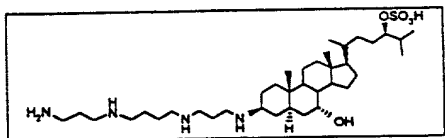


Figure 19

1409



1436



1569

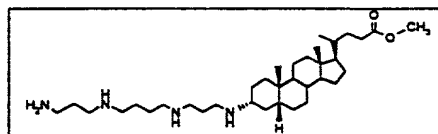


Figure 20

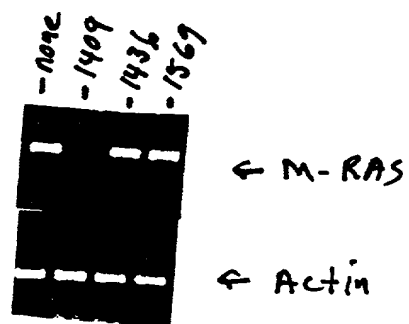


Figure 21

Lovastatin Inhibition of M-RAS Prenylation

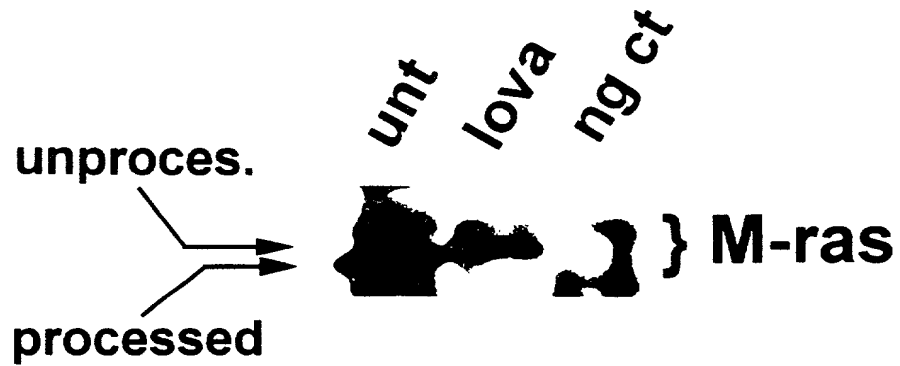


Figure 22